Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A rotary ring for use in a scale reading apparatus, comprising:

a flexible ~~ring, the flexible~~ ring having scale markings provided on a surface thereof, the flexible ring being sufficiently flexible to self-retain about a rotary machine part solely by elastic deformation of at least one portion thereof.

2. (Currently Amended) A system for mounting a rotary ring for use in a scale reading apparatus onto a rotary machine part, comprising the rotary ring of claim 1 and co-operating means on one or both of said rotary machine part and said rotary ring, said co-operating means comprising a region of increased diameter.

3-19. (Canceled)

20. (Currently Amended) A system according to claim 2, wherein the cooperating means is located on the rotary machine part.

21. (Currently Amended) A system according to claim 20, wherein the region of increased diameter is integral with the rotary machine part.

22. (Currently Amended) A system according to claim 20, wherein the region of increased diameter is not integral with the rotary machine part.

23. (Currently Amended) A system according to claim 2, wherein the region of increased diameter comprises an annular protrusion.

24. (Currently Amended) A system according to claim 2, wherein the region of increased diameter comprises a tapered surface.

25. (Currently Amended) A system according to claim 2, wherein the flexible ~~rotary~~ ring is provided with a tapered surface.

26. (Currently Amended) A system according to claim 2, wherein at least one of the region of increased diameter and the rotary ring is provided with a tapered surface and ~~form~~ forms a self locking taper.

27. (Currently Amended) A system according to claim 22, wherein the region of increased diameter comprises a ring-shaped flexible member.

28. (Currently Amended) A system according to claim 2, wherein the region of increased diameter is shaped so that ~~once~~ when the flexible ~~rotary~~ ring is fitted over said region of increased diameter, ~~the~~ a central region of said rotary ring is substantially parallel with the axis of said rotary machine part.

29. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~, the method comprising:

stretching or shrinking the flexible rotary scale onto the rotary machine part.

30. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of the machine~~ according to claim 29, wherein the rotary machine part has a region of increased diameter and the method includes the step of stretching or shrinking the flexible rotary scale over the region of increased diameter.

31. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the region of increased diameter is integral with the rotary machine part ~~of the machine~~.

32. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the region of increased diameter is not integral with the rotary machine part ~~of the machine~~.

33. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the region of increased diameter comprises an annular protrusion.

34. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the region of increased ~~diameters~~ diameter comprises a tapered surface.

35. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the flexible rotary scale is provided with a tapered surface.

36. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein at least one of the region of increased diameter and the flexible rotary scale ~~are~~ is provided with a tapered surface ~~and form~~that forms a self locking taper.

37. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 32, wherein the region of increased diameter comprises a ring-shaped member.

38. (Currently Amended) A method of mounting a flexible rotary scale onto a rotary machine part ~~of a machine~~ according to claim 29, wherein the region of increased diameter is shaped so that ~~once~~ when the flexible rotary scale is fitted over ~~said~~ the region of increased diameter, ~~the~~ a central region of ~~said~~ the flexible rotary scale is substantially parallel with the axis of ~~said~~ the rotary machine part.

39. (New) A system for mounting a flexible rotary ring for use in a scale reading apparatus onto a rotary machine part, comprising a flexible rotary ring having scale markings provided on a surface thereof, wherein a tapered surface is provided on one or both of said rotary machine part and said flexible rotary ring, and the taper angle of said tapered surface is sufficient to form a self locking taper.